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# Amide derivatives of thienopyrroles, their preparation and application as drugs

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## Abstract

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Amide derivatives of thienopyrroles, their preparation and application as drugs. Compounds of general formula (I) where X<sub>1</sub> and X<sub>2</sub>, which are different, correspond to either carbon or sulphur, R<sub>1</sub> represents compounds of formula (Ia) or (Ib), R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl, R<sub>3</sub> and R<sub>4</sub> are either hydrogen, alkyl, halogen, hydroxyl, alkoxy, cyano or nitro, R<sub>5</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, aryl, aralkyl, alkoxy carbonyl, phenylalkyloxycarbonyl, alkylsulphinyl, phenylsulphonyl, alkyloxyalkyl or hydroxycarbonylalkyl, R<sub>6</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, hydroxycarbonylalkyl, alkoxy carbonyl or alkoxy carbonylalkyl, R<sub>7</sub> is hydrogen, alkoxy or halogen, R<sub>8</sub> is 3-indolylmethyl, hydroxycarbonylalkyl or benzyloxycarbonylalkyl, R<sub>9</sub> is hydroxyl or nitrogen combined with R<sub>10</sub> and R<sub>11</sub>, R<sub>10</sub> and R<sub>11</sub> are independently hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, preferably n-pentyl or hydroxycarbonylalkyl, -Z<sub>1</sub>, Z<sub>2</sub> represent C=N- or N-C=O. Their process of preparation comprises reacting carboxyl derivatives with racemic amines in anhydrous or hydrated organic solvents. Their physiologically acceptable salts are used as drugs intended for the treatment of intestinal malfunctions, among other things.



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